No 13 Papied My Sanson March 5-1828 mangural Espay Hydrophobia for the Alegree of Doctor of Medicino University of Tennsylvania William W. Carrington Virginia Philadelphia daman 4. 1828.

Androphobia-

This term is derived from vowe "water" and posses to fear, and affords an instance where a disease deriver it, name from a lingle symptom even when this is not an uniform one. It originates with the canine species comprising the dog, worf and fox; and some have added the domesticat, there alone are capable of communicating it, not with -- standing the host of medical authority to the contrary: many have afserted the horse, ox, and hog popular this power, and we are toto that m majendie provid by direct ex. - periment that, the human Rubfiel was capable of communicating this disease by inoculation of the virus, he collected a portion of the Raliva from a man Infrering Aydrophobia in its last stage, and inserted it under the Min of a healthy dog, and that the dog became rabid a month afterwards. From the position we have taken, we would refer the ourrence of the disease to some other cause that had not been noticed, probably the dog had been exposed to the bite of a mad dog

or it might have been the exects of violent nervous irritation and not the genuine rabies. In opposition to the opinion of this disease bring propagatio by the horse, we can adduce one striking instance, that fill under our observation during the last Summer. a horse was bitten by a dog known to be mad by the infung done by him elsewhere, in the course of twelve days the horse discovered most of the sympotoms of rabies, and bit the groom while administering some remedy; the next day bor b_ was called to see the man and states to him the doctrine that was generally received and as he supposed was correct, that a gramini. - vorous animal could not communicate the disease, also the method to be pursued by those who entertained a different opinion, viz the excepcion of the bitten frant or amputating the hand, and of there he might choose. The man professed running the risk of incurring the disease to the neafesty of undergoing an operation; bor to went on to treat the bite as a common lacerated

a few days. Marness in the dog is whend in by the Common appearances of Jever, a dull heavy look, hanging of the tail with a disposition to bite every thing in its way, soon after there appearances, he becomes thin and weak, his breathing er quick, hurried and difficult, his longue is somewhat withe and hangs from his month, and assumes a leaden hue; a frothy saliva is discharged, he looses all appetito: There symptoms grasually increase untile he becomes quite funous in which state he remains, when at last he seems entirely oven come by exhaustion and generally dies within thisty six hours from the oursence of the complete parosyen. melancholy experience has proven that the nearer to this state the more dangerous the bite. The symptoms in a man bitten by a mad dog present more or less the same character, the part bitter first shows eight of the occurrence of the disease, by becoming paniful, the acatrix lecomes no and elevatio, cometimes discharging

a thin icher attended with a peculiar tingling tensation in

wound, the man recovered perfectly although the horse died in

the part, and frains shoot from the wound to every horh of the body, more particularly to the chest producing a sense of straitness and choking about the throat, with horror at the right, or sound of water falling from one veful to aw. other. The patient browns defenfeed and anscions, cometing falls into a melancholy from which he is with difficulty roused, his blue is distarbed by frightful dreams and Marmodic Startings; the respiration is at this slage labour ions and frequently interrupted by light and other indicutions of anxity, the pulse is quick, though the general temperature at this time does not vary much from the natural elandard. There is entire loss of appetite attended with great theist but the patient dare not drink, In the latter stage the Countinance becomes haggard the eye turgio, sometimes very fierce and glaring, his month and fances are filled with a tough thick Saliva which he is constantly spetting from him, Complaining of being annoyed by it; the restless ness is entreme, the mus der of his face and neck are distorted, the pulse beTomes more hurried and irrigular; His gerticulations are expressive of the itemost writeheaness and dispair, he will Sometimes attempt to hie down and compose himself when he will immediately start up, seeming as if every porture was paniful and there was no relief in change. most writers notice a painful priapiem, this is probably nothing more than a participation in the general spann which ben frequently attends the last Rtago. There is however a great difference in many of the leaving symptoms of this disease, arising from idiosyncraez or some Casually; "moccal revords afford many instances in which there was no dread of water, which is a common characteristic and indud is one of the principal diagnosties. In Other, There is no local affection, get besides this, the disease goes through to regular course, and terminates with its usual result. There is an equal difference, in the length of interval be - tween the bite and the appearance of the symptoms; six or leven weeks is considered the ordinary time, but enstances are related of the virus lying dormant for twelve month, and

longer, while the disease domatimes supervenes in four orgive days. This irregularity is no doubt owing to the same causes which affect the occurrence of most Contagious diseases, viz-the nature or presence of the provisionent or exciting auser which gives energy to the vines, as the depositions passions, great futigue of.

A like uncertainty exists among quadrupor, the morimo term is thought to be ten or trulve days.

The cause of the original disease is supposed to be the excitement of whement rage putrio food long continued thirds
severe burger, a hot and sulling state of the almosphere;
but all of these are africand as causes with sufficient grounds,
but all espathe of existing alarming nervous dynflows,
but not the specific symptoms of ratios canina. Subside
ford as has been will observed, offers too general a cause
for a disease of so rare occurrence, in fact dogs subside
mostly upon meat in this state particularly in source climate,
tohere the disease heldome if ever occurs, for we are

from the peculiar state of the habit or some other cause; When there most likely do not belong to the same class of disease. We are too by D'Mush that exprosure to coto night air, a wound in a tendinous part, worms, the bite of an angry but not diseased dog, have all causes Cases of spontaneous Azdrophobia; how much more safely could we refer symptoms from these causes to violent nervous irritation, as they are the most fre--quent causes op each irritation? D' Chapman mentions that in Gastritis there frequently occurs marry of the symptoms of Agdrophoviw, as draw of water, entolerance of light or lound, difficulty of deglutition and extreme nervons lensibility; and can the identity of these two diseases be contended for? nuther do post morten examinations afford any widence of the analogy between this and the date of malignant Jevero: for the thomach in these last is always more or les phlagoso, but in Aydrophia there are no regular appearances; the reports of disportions of hubjects orging

of this disease under apparently the same circumstances, are to entirely different, some aperting that the Janes of parts Connected are very much inflamed, and even the asophagus and stomach, showing ligns of inflammation advancing to gangrene, while others discover northing of this; get cometimes they have found the brain afgeted, the vikels being turged and the ventriles full of water. D' meas in a purper on this subject found the fences very much implanted, the left love of the lungo black with collections of black blood in its substance, the liver was hard and of a gellow bilions colour, and a quantity of greenish viscio bile in the stomach. Cases are related by Sanvages and morgagni of evident changes in the character of the blood. There is nothing Connected with this disease that seems to be more commonly received and established than that the Egmpton of By orogehovia or draw of water is peculiar to the human race, but the occurence of a case to the contrary during the last year, as reprosto to me by a very intelligent & respectable

gentleman, excite doubt, whether the ground so generally takens by the midical world be tenable. The nature of the case was this, a sheef having been bitten by an mad dog, in eight or tou days manifested the usual symptoms of the disease, and during the most violent stage, a pitcher of water was dashed whow it, where whom the animal immediately be -. came convulue. There is occasionally a departure from its general character and it assumes the intermittent type; the interals are for the most part lunar, as at the return of every full moon the part bitter becomes very irritable, and spasmo or great amounty about the precordia. Inferrence. This is most aft to occur from the disease Communicated by the cat, and the venus in a measure seems te loose its specific character, by papeing through The Cat, as some of the most alarming hymptoms are frequently absent, or very much diminished in violence; the patient for example, discovering little or no dread of water, which always regulates the quantum of tetamic Construction. The nature of this disease is so unsettles, and as there have

been so many hypotheses to explain its nature and affin its scat, so they have given rise to a corner ponding diversity of treatment. The remedies for My drophobia divised them - ledver into two Rmior_ 1st Such as are proper to prevent the disease, after the virus of the rabio animal is received into the body. 2" Such as are proper to cure it when form, The most efficacions measure of the preventive plan, is the entire excepsion of the butter part and inducing salivation. Cases have been reported of proventing the disease by wash ing the wound in dalt and water, and Do Hay garth assise, frequent effections of Cold water, in order to wash out the virus; this is rather an equivocal remedy and no doubt originated in necessary, or the patients fears of the limite; great reliance is also placed whom the free use of the supplications but the wright of medical outhority greatly preponderates in favour of exuspion; both on it more Spectually, and looner removes the virus from the system. From the circumstance of the proison; lying dormant for a con-· liderable time, the operation should be performed even a week

after the bite. There is another method proposed by a Ruferano physician, m marochetti, which thrown new light on the subject and promises something towards the miligation of this disease: the first points out certains indications for discovering the existence of the virus and then gives the means of destroying or preventing its effects; we will insert here his theory. It is evident that this virus does not continue in the wound , but is carried in its full force to a part of the book present to be described; which he afterwards tells us is where the common ducts of the Sublingual and Rubmaxillary glands open ow each side of the framum of the toyue) at this point it instantly acts as a porcegul astringent, and by accumu lation inflames and shuts the papages which nature ender--vours to expel it from the animal economy. It is precisely to the extremities of these ducts that the Azorophobicoins a Conveged after abite inflicted by a rabid animal, and there it is temporarily detained forming at the two epots pust described one or two small tumours of uniqual ligo. by touching these with a probe, it is found there is contained

a fluctuating humour, which is, as absorption proves the virus itself. It is there that nature delivers to us her ene. my, and it is from this hord the Rungeon ought to expel himse He goes on to day "That there tumours should be opened by a thank land or Canterized; as Room as the operation is over the fratient should wash his mouth with a strong decortion of the flowers and tops of the Genista laterationia. and this should be the common drink of the patient from the bite to the appearance of the tumours. The time cannot be exactly defined at which there tumours will appear, so that the lower part of the tongue should be carefully examined twice aday, for lix or right weeks. Unless the tumours he operates whow in the course of hourty four hours, the burns is re-absorbed and the general desiase luper--venes: He addices many cases to bear him out in the correctness of his views and the efficiency of his pland. Lluring the formation of there tumours Rays Dr marochette the pupil is dilated and Jiaco, The look is Lut; uneaseness is complained of, and there is a small pain in

the head. We cannot accede to the first part of his position, that the virus does not continue in the wound; at least for a few days: If not how do we account for the sure for ex cipion, wen when delaged for several days? Wet though we have differed from D' marochetti, theory in part, we concur with him, that the virus displays itself in the sublingual gland or the extremety of its duct, this seems to be the work house of assimilation. may not the symp toms be accounted for by supposing, that the virus of the rabio animal is introduced into the egstern by the bite; that it there lies dormant, untill brought into action by Some cause favourable to that peculiar action. That the affection begins at the point of inoculation, and extends itself through the system by means of the nervous sympa-- thus, producing an immediate and pearliar desinted action in the enblugued glands, Their completing all The Symptoms af Ady drophobia. That the disease prior to this pendiar action in the Rubhujual glando, differ in no respect from the telanic spasm; and that this action must

take place in the glands above named, to constitute the Complete disease. Our attention was first directed to this subject by observing a custom among the negroes, of what They call worming their dogs. I have greguently witness This operation, and it consists in nothing more than exterpating the bublingual glands; When there were entires removro the dog loar perfectly safe from the disease. The universality of the practice gave credit to the plan and we were induces to make the following experiments. 1st The Sublingual glands were enterpated from several dags and they were exposed to the bite of a mad dog, yet mither of them were affected with the disease. Supposing that the ouverence of the disease might have been prevented by some Casualty, we were induced to repeat the experiments; and enfrosed them to dogs that were mad at all the different etajes of the disease, and met with the same result. I. at the same time we exposed two dogs, that had each lost one sublingual gland, one of these went mas, the other escaped entirely.

3. That no doubt should exist as to the certainty of the subjects of there experiments, having been exposed to rabis animals, dags perfectly healthy and entire were exposed, and the disease in every case showed itself in a character that could not be mistaken. If however the local measures should prove imflectical, we must resort to general means, which unfortunately are very uncertains; and probably no particular plan can certainly be said to have aired a single will established case. And we feel authorized in saying this from the frequent failure of all remedies lingle or Conjoined, and from the disease sometimes wearing itself out; as we can harof attribute the aires of lone reportio cases, to the heterogenions and incomputable reme. -dus employed. We will however present such as are of most promise. Some physicians have supposes it neufrans to Stimulate and support the vital power in order to enable it to resist the enervating effects of this disease, in which they Consider the most danger and for this purpose have addised the liberal use of the volatile alkali and Camphor: the I. bank hus been used for the lame offect. In direct opposition

to this plan, is that of immediately exhausting the egsternby very frequent and Copions blecdings, even to deliquinin; or The principle of its very inflammatory character, as coope rating with immersion in cold water was used, and all measures that reduce the living power to its last Ab. - And records are replete with cases in which this depliting plans has buccaso, but frequently other powerful agents as marcury, were used at the same time which rendered there reports very unsutisfactory. Not a few have entertained the notion that the virus should like other poisons be sphoud by antidoler and the usual specifics. The municitie, bulphuric, and above all the acetic acid has been regarded as anti-lyssic; and the alkalies (of which ammonia is the best) have been esteemed as belonging to the same days. Reports opeak Javour ably of murany. The corrosive sublimate has been proferred as producing its effects doonest, togather with inum -tion or probably fumigation on the object lumber be a spudy ptyalism. The history of this disease proves that openin, and that of the most unrelenting order, forms one of it, leaving symptoms; hence

antisparmodices would been to be demanded. with this vino opinin much and stramound have frequently been employed, and pro Ackional prejudices have dealt out encomment whom these with a liberal hand. There may pulliate, but we have incortestible evidence of their insufficiency to cure the disease. Or Physick supposes the immediate cause of cleath to be a sudden and sparmobie constriction of the glotter, inducing suffocation; and that it might be prevented by creating an artificial papage into the lungs, whenly life may be continued long enough to admit of the administration of appropriate remedies; for under ordinar circumstances beorges of the opicinal properations can be exhibited, at least in the advances stages all fluids are refected; and come of our most active articles Operate more energetically in Tineture or water, Solution. The imporlant indications which this practice seem to answer, promise to thip Agorophobia of some of its horrors, as the stomach pump has, from poisons of the mineral and vegetable Ring doms. Our attention should next be directed to the spanmodic action of the chest and throat and provent its returns. To pro aire this end, all the exciting causes should be etudionely

avoides, such as light, noise, agitation in the air, and above all water, for it is a frequent but consurable practice for every physician who may be called in, to present a glass of water in order to witness its effects: The motions of a Jemale drifs or bis cuitains produce the same effects; and on no account should the patient be moved from his bis to be plunged. lute sold water or warm oil as some have advised, and as much composure as we can profeibly procure under this restless Mate of the body is posetively demanded. (Rome have recommended the straight fucket) on Connexion with there the Dover from. der is serviceable, Since The system is from irrigular action when there is a general moisture on the Rusface. The purgatives are not particularly indicated, get the Foroels Thouto be Rept open, and when plethora privails to any extent blood should be drawn from the arms and repeated if menspary, but I would not be urged ad deligious animi as lome practetioners have contenors.